

ECLIPSE RACES,

(Addressed to the LADIES:)

BEING AN

IMPARTIAL ACCOUNT

OF THE

CELESTIAL COURSERS and their RIDERS,

Starting together, *April 1, 1764,*

FOR THE

ECLIPSE-PLATE-PRIZE.

Their Distinctions and Atchievements.

Those who were Competitors, distanced, thrown out, or met with Accidents,
in the contending ENTERPRIZE.

Who won the PRIZE.

Popular Fears and Apprehensions, with *suitable* REMARKS.

And the true APPEARANCE of the RACES represented.

Some CUSTOMS, in our public OBSERVATORIES and *Mathematical*
SCHOOLS, referred to the *Consideration, Power, and Justice*, of the dis-
cerning LADIES.

The *Yorkshire* SYPHON-MAKERS. and PHILOSOPHERS: A *Satyr*. INVIT-
TATION to *Epsom Races*: A *Song*. TIT-UP: Another *Song*.

O 'twas a gallant Steed I rode! --- train'd up
To War! --- Had I known Fear he would have *tham'd* me!
He curl'd his Crest, and proudly paw'd the Ground,
And from his *vocal Nostrils* neigh'd such Fire!
To mount him seem'd the Transport of a Throne!

Shakespear's King John.

K By PHILO-PEGASUS, a Lover of Truth.

L O N D O N :

Printed for the AUTHOR; and sold by J. WHISTON and B. WHITE,
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Maker, *Fleet-street*; and several other Booksellers and Mathematical-
Instrument-Makers. MDCC LXIV.

[Price One Shilling.]

ADDRESS to the LADIES.

FAIR LADIES,

PERMIT the humblest of your *Admirers* to appear before you, and lay himself at your *Feet*; and withal to acquaint you, in the *Fulness* of his Heart, of his *unalterable* Attachment to your *Persons* and all-piercing Minds. Long has he waited for this happy Opportunity of testifying the *Ardency* of his Esteem for the *loveliest*, the most *amiable*, and most charming Part of the CREATION!

When he sees you *swimming* along the *Dance*, how does he admire the *graceful Attitudes*, in which you then present yourselves before the *Eyes* of the Spectators!--When he hears a *Lady's* melodious Voice, in a *Song*, he is transported, and fancies that he hears the Voice of an *Angel*. But when she touches his Senses with her *Spinnet*, he is in an *Extasy*!

But hold---He sees another dear *Creature* mounted on her *Filly*, and dress'd for the Chace. See how the joyous *Steed*, proud of the Female *Treasure* he bears, prances, bounds, and tosses his Head!--Away she goes, or rather Flies after the Hounds.---Ditches, and five Bar-Gates in vain oppose her Passage! She bounds o'er all, victorious in the Chace! the Heaths and Hills and Hedges sink before her; and are but *Straws*, and *Shadows*, in her Way!--O how my Heart goes *pit-a-pat*, when I behold the *springing* Leaps she takes! But nothing prevents her *Career*, or defeats true Female Courage and Emulation! The Chace is now in View; no Difficulties can affright, or restrain the *fair Rider's* Impetuosity. Who bravely resolves not to lose either the *Pleasure* or the Honour of being the *Foremost* at the Death of the Stag. Such is our HEROINE!--Let any of her *jemmy*, *fighing*, *dying* Lovers follow her Examples, if they dare!

*She, like the swift CAMILLA, scours the Plain,
Flies o'er th' unbending Corn and skims along the Main.*

'Tis true, I never saw any of these fair Ladies engaged in the *Saddle* Contest, at a *Horse-Race*, but as Spectators; this Sort of *Exercise* being as unfashionable as unfit, though they can judge the best of any who performs the Best. But what Feats has the HERO atchieved, that have not been as bravely attempted,

tempted, or executed by some *dauntless* HEROINE?—*History* furnishes us with numerous *Examples* of this Kind. If we look into *sacred Writ*, we shall find *Deborah* leading out an Army to *Battle*; though comparatively but a *Handful* of Men. When *Barak*, the General, refused to face the Enemy, unless she would appear at their Head, to lead them on,---The *Amazons*, a Nation of warlike Women, are renowned in *History* for their great Exploits, and amazing Enterprizes. How bravely did they encounter and repulse every Enemy that ventur'd to attack them! Were always Victorious! Who, by their Courage and Magnanimity maintained their *Liberty* and *Independency* against the numerous and disciplined Armies of their Male *Adversaries*; though they consisted of Men inur'd to Arms and War!

If we look into the *literary World*, with what *Splendor* does the *Female Genius* brighten the learned *Page*? Many *Ladies* I could mention, as well ancient as modern, who, in every *Branch of Science*, have equalled, and sometimes excelled, the most famous *Philosophers*, *Mathematicians*, and *Poets*, their Contemporaries. And it was not out of *Compliment*, paid to the fair Sex, that the wise *Ancients* assure us, that the *Nine Muses*, and *Three Graces* were all Females. The real Sentiments of these Ancients, resulting from their *Experience* and *Observation*, were, that the *Female Soul*, being properly cultivated, was as *capable* of penetrating the deep *Recesses* of *Philosophy* and *Science*, and of making as many Improvements in the several Branches of useful Knowledge, as any of their own Sex's *Faculties* could attain to.

It appears, from hence, that the *Moderns* are actuated by a Spirit of *Jealousy*, when they deny their *Daughters* the Means of a *liberal Education*, lest they should ECLIPSE their *darling Sons*, in whom they place the *future Reputation* of their FAMILY; especially of the *Heir Apparent*: Though perhaps but a mere *Clod-pole*, both in natural Parts and acquired Attainments. That, if such a *Misfortune* should happen, as for the *Girls* to shine out with more refined *Accomplishments* than the *Boys*, what an *indelible Blot* would this be in the '*Scutcheon* of their Family's Honour. To prevent which, the dear pretty *Creatures*, now a Days, are kept to their *Housewifry*, *Needle*, and *Spinning Wheel*, till they are married.

But some of the *Ladies*, however, are free from these *Shackles* of the Mind. There are some *Fathers*, who take Delight in improving the natural *Talents* of their *Daughters*, watch the Growth of their *Understanding* and sprightly Turn of Wit and *Genius*; give them full Scope for the Exercise of their *lively Faculties*, and take all possible Care to lead them on, in a *Track* of Learning and Improvement the most suitable for their Parts; adapted to make them truly admired, and to shine with the most distinguished Lustre, and brightest *Eclat*.

To these *worthy Ladies* I would more particularly make my Address, and appeal to their *superior Judgment*, concerning certain *scientific Abuses*, crept into our public OBSERVATORIES, and *Mathematical SCHOOLS*, which *male Practices*, being occasioned by *male Interest*, refers to *Female Power* and Justice to redress. As before *Female Candour*, *Impartiality*, and *Justice* all our public *Abuses* should be laid; (whether of *Charities*, *Endowments*, or *Oppressions of Many*, for the Interest of a *Few*) when there is no Redress to be obtained from *male Trustees*, *Administrators*, and *Superintendants*.

Let me then, Ladies, have the Pleasure to see you mount YOUR CÆLESTIAL COURSERS; proceed in the *Course of Wisdom*, *Science*, and *Truth*, and fear nothing!—Then, I doubt not, but you will soon see your *envious COMPETITORS*, the MEN, thrown out, and left at a *double Distance* behind you. Do but *exert* your natural and acquired *Abilities*, and the PRIZE,* I will venture to pronounce, will be your own. And consider, *fair Ladies*, the GLORY redounding to your Sex from such a *Contest*, as THAT must be, when the Men are obliged to acknowledge your *Superiority*! Start but fairly, and you may be assured the *Odds* will be greatly on your Side. And I will do myself the *peculiar Honour* of investing your *sacred Temples* with the triumphant Wreath of LAUREL so justly your Due!

I am, FAIR LADIES,

with the utmost Devotion,

your most obedient humble Servant,

PHILO-PEGASUS.

* SEE the ECLIPSE MAP and PAMPHLET, sold by B. COLE, *Mathematical INSTRUMENT-MAKER*, in *Fleet-street*. Price 2s. only, now the *Eclipse Race* is over.

B

ECLIPSE-

ECLIPSE RACES.

*Fair was the Morning, and serene the Air,
When all the People for the RACE prepare;
Some ride, some run, or walk to take a View,
Some late in Bed, do all that they can do;
And some on Tops of Houses crowd the Scene,
And all prepar'd to see what can be seen.
The STEEDS CÆLESTIAL, bounding, as they neigh,
The Riders mounted to the Course draw nigh;
Now beat, with shining Hoofs, the azure Sky!*

THE ECLIPSE RACES began at London, on Sunday, April 1st. 1764, in the Forenoon, precisely at 9 Hours, 4 Minutes, and 53 Seconds, apparent Time; according to Observations made in the Strand (for which see Appendix to Palladium-Supplement, for 1764, sold by B. Cole, Mathematical-Instrument-Maker, in Fleet-street) where and when the several CÆLESTIAL COURSERS, (with their Riders of this Kingdom, distinguished in their proper Colours) started together, with great Emulation and Vigour; for the Eclipse-Plate-Prize! The Royal Astronomer's PEGASUS (the Rider in Blue) led the Course, with surprising Equality and Speed, from the Foot of the Hill to the Mid-Ascent of the Heavens; when Witchell's HECTOR (the Rider in White) was left behind about 2 Minutes; Mayer's GO-BETWEEN (the Rider in black Sattin) about as much; and Halley's HERCULES (the Rider in black Velvet) about 13 Minutes; running on the South Side of the Course. The Oxford CENTAUR (Rider in Party-Colour) kept a little to the right Hand, and near to the Royal PEGASUS. As Martin's MERLIN (the Rider in Stripes) was observed to keep near to, and jostle with Witchell's HECTOR. MERLIN's Rider, in vain strove to gain the whip Hand of Hector's Rider; who pressed him very close for that End, without Success; but as if he had run the Ground over with him before. The Greenwich HERCULES, having been lame for some Time, did not Start!

The other English Coursers (as likewise FRENCH STEEDS, imported for the Eclipse Races) deviated much from the Speed of Pegasus and Hector, foaming and snuffing the Wind, as if they expected to come up with them by and bye; but to their Mortification met with Disappointment.

The

The principal COURSERS now ascending the *middle* of the Hill, HECTOR run for some Time, near the Royal PEGASUS. Whose Rider keeping to the *Whip* and *Spur*, was for a while, run away with; who leaping a *Ha!* *Ha!* PEGASUS stumbled and fell on his Knees; but his Rider kept his Seat, by which Accident however he was thrown out, for a while, on the Middle, and HECTOR was thrown out on the *South* Side of the *Course*; but PEGASUS soon recovering his *Vigour*, regained his Speed; and bearing on the *Bit* (while the other *Cæstial Coursers* run with loose Reins, and contracted Mouths) terminated the Race the *nearest of all as to Time*. HECTOR terminated it the *nearest of all as to Position*. In which last Property the Royal PEGASUS was as much out as the Oxford CENTAUR. MERLIN came in with his *Nose* very near the *brave* HECTOR's Tail.

The rest of the Coursers were all distanced, or quite thrown out; but Borrowed Balaam, or the Danmonian yellow Poney, was run over in the general Contest. Which Accident, we hear, was occasioned by the *Blindness* and *Conceit* of the Rider, who, (notwithstanding his being admonished, that he knew nothing of the Matter, in such *Undertakings*.) would, against all Reason and *Perswasion*, obstinately engage to start for the *Prize*; but he was pitied and generously rewarded by the Spectators, for the sad Accident of his Bruises, that he met with from the *Madness*, *Vanity*, and Folly of his *Attempt*.

The *Almanack Hunters*, and the City and Country Colts, and Ponies, made no Figure at all; but were all run off their Speed and blown; and some were double-distanced. Some hung their *Ears*, and *Tails*, at their coming in scarce able to sustain the Weight of their Riders, and some at coming in could hardly make a Trot. Others came in among the Crowd, with their Saddles lost or turned, and their Riders flung off.

When the principal CÆLESTIAL COURSERS, Pegasus, Hector, Merlin, and Centaur passed the STANDARD, where the Colours of the Sun and Moon were hoisted and flying, Drums beat, and Trumpets sounded! But Cat CALLS, and Salt BOXES were heard, at the Approach of the pretending Calculators!

The several Riders being dismounted (running one Heat only) and appealing to the Gentlemen of the TURF and STANDARD, for the Decision of the Prize, warm Disputes thereon immediately arose; which continued, without Cessation or Decision, for some Time. Infomuch that the Crowd interposed, and surrounding the Standard, cry'd out (with general Acclamation!) a Hector, a Hector, a Hector, forever!-- While some faintly cry'd out for Merlin! some for the Centaur! and some for Pegasus!--The Gentlemen of the TURF and STANDARD, alledged to the Crowd, that as the Time the CÆLESTIAL COURSERS should have come in, was a Point they had not yet settled among themselves, it being so cloudy to observe, it was consequently difficult to determine, for Want of more Light; that they could not peremptorily say to whom
the

the Prize ought to be given; especially as there was such Difference, in the several Times of their coming in by the Watch.—When the Mob cried out, none of your *Shuffling!*—WITCHELL (by *Permission*) is the MAN!—He has sold more CLIPSE MAPS than MARTIN, BETTS, and RED COAT, all put together! He has sold 700.—And shall not such *Merit* be rewarded.—Fie, Gentlemen!—*Hector* was shod at *Greenwich* (now *HERCULES* is lame)—His Rider had his Instructions there, and tried the *Cælestial Course*, over and over, before he run for the Prize; and had the Countenance of the GREATEST, who saw him ride. He took measure of the *Earth*. He traced the Moon's *Shadow* (or *Shade*) He, in short, did every Thing!--and must he go unrewarded with the Prize?

Others interrupting, alledged to the Gentlemen of the *Standard* and *Turf*, (the *Colours of the Sun and Moon* being then flying) that *Martin* had come so near *Witchell* in the Moon's *Shadow*, (which the former had represented darker in an *Annular* or *Partial* than in a *total Eclipse*) and so near him in his *Times*, that WITCHELL's *Shadow* and *Time*, must be so near his, that it was easy to determine that *One* was beholden to the *other*, during the whole *Contest*, and especially at the *End of the Race*!--That the famous MARTIN had read *Lectures* on *Eclipses*, and that *Witchel* had never read any.—That from his universal Acquaintance (as a *Traveller*) with the *Earth*, *Sun*, and *Moon*, and the *Stars* also, he must certainly know more of their *Intrigues* than *Witchel* can pretend to; and therefore he could best determine the *Places* and *Times* of their *Meetings* and *Assignations*!--That he was intimately acquainted with all their *Motions*, and had a daily *Inspection* of their most secret *Transactions* by the Means of his new improved *optical Glasses*, and consequently he deserved the Prize.—

Others being for the *Oxford Centaur*, alledged that *Betts* was the only Person that had given the Moon's oval *Shade* simple and distinct; that all the other *Stronomers* had confounded theirs with the general *Passage* of the *Shade*, though he mought be out in his *Passage*. And that as his *Times* of ending the *Races* mought be as near as any others, that could not be decided from *Observation*, he ought to be preferred immediately to the Prize.

Other Disputants started up and interrupting these, alledged in Favour of *Royal Pegasus*, that notwithstanding the Pretensions of the three Competitors, against that Rider, it never was considered, that he had as good a Claim as the Rest for the Prize; especially as it could not be known from *Observation* when the *Eclipse Races* should have ended.---And as neither the *Passage* of the *Shade's eastern Edge*, nor *Breadth* of the *Shade*, could be defined from *Observation*, it being rainy that Morning at *Paris*, when the *eastermost* *Passage* in *France*, should have been observed, in all Places where the *Sun* and *Moon's* upper Limbs were seen, to touch one another: As the *westernmost* *Passage* thereof was observed in *England*, in all Places where the *Sun* and *Moon's*
lower

lower Limbs were seen touching.—That in all Appearance of Truth, the *Eclipse* Map and *Pamphlet* bid fairest for the *Prize* ! especially as many Things were contained *therein* not to be met with in any other *Prize-Pieces*.

THE PRIZE DECIDED.

The Contests thus proceeding, MINERVA, the Goddess of Science and Truth, descended, in a bright Cloud, over the *Standard* of the *Sun* and *Moon*, which bursting at the Sound of *Fame's Trumpet* that attended her Goddessship ! when she in the Brightness of her *Person* thus bespoke the wondering and contending *Crowd* ! “ HECTOR and PEGASUS are the only *Competitors* ! MERLIN and the CENTAUR are without any just Claim ; being “ not so near the Times of *Beginning* and *Middle* of the Eclipse observed, as “ HECTOR and PEGASUS ; (*scattering, at the same Time, numerous Eclipse-* “ *Appendices, to the Palladium-Supplement, 1764, for their Conviction ;* “ *since had at B. Cole's, Fleet-street, P. Dollond's, in the Strand, and F. Wat-* “ *kins and Smith, Charing Cross ; her ingenious Friends*) MERLIN deviated “ from Truth in many *Particulars*, so did the CENTAUR ; both shewing “ their *Deficiency*.—PEGASUS's Times at the *Beginning* and *Middle* of the “ ECLIPSE observed, were nearer than those of HECTOR. HECTOR's *Ap-* “ *pearance* and *Passage* nearer than those of PEGASUS ; therefore the PRIZE “ must be *equally divided* betwixt the Owners of *Pegasus* and *Hector*.”

The Goddess said,—and immediately vanished from the Sight of the wondering Spectators !—When another Sound of *Fame's Trumpet* was heard, who attended the Goddess in Person, striking the Audience with Surprise and Delight ! And a general ACCLAMATION ensued of a PEGASUS and HECTOR, for ever !—To whose OWNERS the Gentlemen of the TURF and STANDARD delivered, by MINERVA's Order, a COMMISSION in the ARMY, left with the *Blanks* to be filled up, and another Commission, with *Blanks* to be filled up, for SECOND OBSERVER, at the ROYAL OBSERVATORY, at GREENWICH ; with an F. R. S.

POPULAR FEARS and APPREHENSIONS, extracted from divers AUTHORS of great AUTHORITY.

ON the Morning of the SUN's ECLIPSE, the Fields about *London*, were covered with Observers, spying through *Pieces* of broken Glafs, smoked Black on one Side ; who were possessed with different Kind of Fears and Apprehensions.

In *Bloomsbury Fields* this Eclipse had such an Effect upon the Mind of a wicked Fellow (*one of the Hand Bill Gang*) who had been up all Night, to follow his Calling, and being Conscience struck on the Morning this Eclipse was to happen, that he fancied the World was come to an End. As he stood near the *Devil's Gap*, he wanted to repent and wished he could meet with a Parson; when a Chimney-sweeper, crossing his Way, who he mistook for one (being in a *maudlin Mood*) he fell prostrate on his *Knees*, at his Feet, before him; protesting, if he could be forgiven, he would forsake his former Ways, never distribute any more *Hand-Bills*, nor look one Way and row another, as before he had *DONE*; and talked of something he had *DONE*, at a Hedge Row, near *Peckham-Gap*; but the Chimney Sweeper taking him for a Madman, or a Fool, turned from him, to observe the Eclipse.

The Saints of *Whitfield's Tabernacle*, being apprehensive of a Visit from Heaven for their Sins, put a *Light* into the Lanthorn of their *Cupola* (instead of hiding it under a Bushel) to manifest their inward *Light*. The Air being then misty, their Torch shed dismal Gleams through the Sashes; which so frightened many of their new *Profelytes*, that they begun to confess their Sins aloud! and to shew their Repentance by Tears of Sorrow and Contrition.

A Throng of *Romaine's loving Brethren*! so blocked up the Way, on the Eclipse Day, near *St. Dunstan's Church*, where they waited for Entrance to pay *Thanksgiving* for their happy *Deliverance* from that Day's Terror and the Danger of the Eclipse, that *Fleet-street* was almost impassable by their standing so thick about. Of which the *Pickpockets*, and *Hand-Bill Gentry*, taking the Advantage, as People squeezed to pass along, they reaped the Benefit of a considerable *Harvest*, at the Eve of the *Eclipse Day*. But the pious Preacher, intent on reforming the Minds of his Hearers, never considered the Danger of other Mens Pockets, while he could with so little Trouble and Attendance fill his own! Who should, at least, suffer the *Doors of Righteousness* to be open, so as to give no Obstruction to the Entrance of his Brethren therein, nor Interruption to others passing by his Holy Gates!

Others of different *Denominations*, and *Callings*, were seen peeping through their *sixpenny-mathematical Glasses*, in the Forenoon, crying out, *Bless me!* it is a great Eclipse! a prodigious great Eclipse indeed! aye, and according to the Learned, we shall have it very dark, very soon. For the Sun is now almost got to Bed to the Moon.

Upon the Bank, near *Lord Baltimore's new House*, a Man held up a Child, upon his Shoulders; because the dear Baby mought see the Eclipse. For, me-hap, said the Child's Father, this Boy may come to be as great a *Stronomer* as *Muste Martin* himself, aye, and as great an Author too, and *Eclipse-Philosopher*.

Some

Some Men and Women in other Places blacked their Foreheads, Noses, Chins and Faces, by turning the wrong Side of their smoked Glasses to look thro' at the Eclipse, which made them look very frightful; and especially to those disturbed in Mind, or of tender Conscience!

In the long Fields, a Crowd was listening to a blind Teacher (distributing Hand and Quack Bills, and selling Eclipse Cuts) who told the AUDIENCE, that he had DONE those Things he ought not to have DONE, and had left undone those Things he ought to have DONE, and had seen the Evil of his Ways—That he repented thereof, heartily; hoped to be forgiven, as he wished others there present, would follow his Example! Then he began to explain the Nature of Eclipses, turning to the Hearers, he said, Gentlemen, don't you see that there Chimney there, at Montague-House, or the famous British Museum; and don't you see this here School Boy here (stand still my Lad) don't you see he is between me and the Chimney? So he eclipses me from the Chimney, if he was tall enough.

Who thus proceeded,—Sir Isaac Newton, Dr. Rock, and myself, are of the same Opinion concerning the Nature of Eclipses, and the elliptical Intercursation of the Cælestial Bodies.—When one of the same Class or Row, thinking himself a shrewd Fellow, said to him, *unda drivatur Eclipse*.—To whom the Teacher immediately replied, *ab ellipsis*; saying that the Word Eclipses sprung from *Ellipsis*, as the Word *Danmonium* (by some signifying *d——d* Author) was derived from *Damon*, and a Corruption of the Masculine with the Neuter Gender. Which Fools admire and Madmen disapprove (adding have you read Pope, Gentlemen) and so proved the Depth of his Learning.

But a sudden Shriek of a young Girl, who stood next this itinerant Teacher of Mathemaggots, put an End to his learned Discourses. The poor Girl complaining that a Rat had attempted to storm her Petticoats. When a Rat was immediately observed creeping along the Bank, tho' at some Distance from the poor frightened Thing! The Spectators thereupon set up a Shout, or View Holloo, or tally ho! as when the Fox is in Sight.—Then away went all the blind Teacher's Attendants to Rat Hunting, leaving him to his own mad Meditations.

The Conversation of some well dressed Gentlemen and Ladies upon the Subject of Eclipses, was over heard as follows.

1. These modern Eclipses (*says one Gentleman*) are not like what they formerly.

2. No, says another, not to compare to those before Christianity; we have been degenerating in our Exhibitions (even in Christianity itself) ever since.

3. The Moderns (*said another*) can no more pretend to rival Antiquity in Arts and Sciences than in the Productions of Nature.—To pretend to compare our Eclipses now a Days, with the Eclipses of our Forefathers of Greece and Rome, would be as absurd and shocking as to compare our Gunpowder Fighting with their Fighting, with Spears and Shields, Faulchions and Bucklers, Javelins and Helmets; or as Hector and Achilles fought. When
a worthy

a worthy Lady interrupting the Discourse, said, that as to modern or ancient *Fighting*, she did not pretend to understand, as it was practised in the Field of *Mars*; but having, more than once, had a Command in the Field of *VENUS*, she had obtained many *Victories* under her Banners. That she thought there were clever People in all the *Sciences* in every Age; but withall she thought that there had been more Noise made about this Eclipse than there ever was made about *Lady Godina's* originally riding naked through the Streets of *Coventry*, to preserve the Rights and Privileges of those Inhabitants. Who now rides, annually *eclipsed*, with a Veil of thin Gause over her, to hide her BEAUTY! That several of the *Astronomers* had shewed themselves not able to hit their Mark in this *Eclipse*.—Who concluded, that she believed some, who call themselves *Astronomers*, had more Knowledge in Calculations than they had of real *Wisdom*, and *substantial* Understanding; with respect to the *Conduct* and *Happiness* of human Life,

In another Place, a Mob of *Link-Boys* presented themselves, with their lighted Links; who being asked the Reason thereof, replied that they waited till it was quite *Dark* to light the *Gentlemen* and *Ladies* to Church; for it had been reported to them, by some great People, that the *Darkness* would last for two Hours; but that it had been since reported, from the same *Quarter*, if the Public are resolved to have their CLIPSES very Dark, and very long, for the Future, they shall be obliged to bespeak them seven Years, at least, before hand; and shall be obliged to take off such a Number of ECLIPSE TICKETS, as by the CLIPSE MANAGERS, shall be required.

ECLIPSE REMARKS and ANECDOTES.

1. IT is found by Experience, not good for *Women* with Child to look at *Eclipses*, lest their *Children*, from the Mother's Fears should be born looking upwards.

2. A *Surgeon's* Daughter, has been observed to look upwards in Consequence of her Mother having looked at an *Eclipse* of the Sun, when she was with Child of her.

3. A Woman near *Bedford*, at *Ashby de la Zouch*, in *Leicestershire* (you have the Place for the Authority) being pregnant, slept without Doors, to see the *Aurora Borealis*, or northern Lights, in Summer; which having observed she put her Hands before her Eyes, and exclaimed, "Lord have Mercy!"—Who then dropt down her Arms, but her Fear was so strong that she covered her Eyes again with her Hands.—But the Boy of whom she was then with Child, had the quivering Motion his Mother saw, and continually looked upwards.

4. During

4. During the late *Sun's Eclipse* some *Ladies*, in their Dressing Rooms, ordered *Betty* to bring them some Water to see the *Eclipse* in, who filled several Vessels standing about, and placed them in the upper Part of the House, where the *Sun* and *Moon* were open to view. In which Vessels, filled with Water, these *Ladies* took a pleasing View of the whole *Eclipse of the Sun*, as the Moon went upon him till she came off. But one Lady, forgetting her *Undress*, being very intent in observing it, fancied she saw something in the Water, that looked like a *double Eclipse*; who calling her Companions about her, and looking more narrowly, they all perceived that it was only her own fair Image obscured in the Water, by the other *Eclipse*, or less bright Image of the Sun.

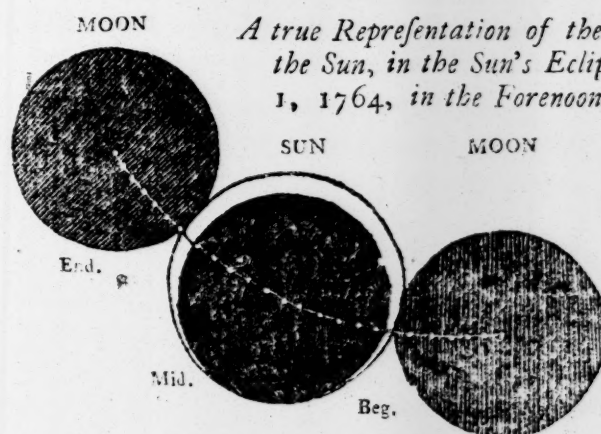
5. Some Ladies have been observed to eclipse themselves by wearing Marks on their fair Faces.

6. Others eclipse themselves by wearing awkward and unseemly Dresses.

7. And all little *Masters* and *Misses* eclipse themselves by Neglect of their Improvements, and Undutifulness to their Parents.

8. And Persons of all Degrees and Denominations, eclipse themselves, and their Happiness, when they put on unseemly and deformed Vices.

APPEARANCES of the ECLIPSE-RACES of the SUN and MOON, 1764.



A true Representation of the Moon's Motion over the Sun, in the Sun's Eclipse, on Sunday, April 1, 1764, in the Forenoon, London.

Strand, Observed.	Apparent Time			Computed fr. R. Astr. Eclipse Pamphlet reduced to London. C.			R. Astron. Error.		Computed G. Witchel.			G. Witchel's Error.	
	h	m	s	h	m	s	m	s	h	m	s	m	s
Beginning	9	4	53	9	5	31	—	0 38	9	2	43	+	2 10
Middle	10	30	43	10	31	35	—	0 52	10	28	8	+	2 35
Inferred End	12	2	20	12	2	34	—	0 14	12	0	4	+	2 16
Duration	2	57	27	2	57	3	+	0 24	2	57	21	+	0 6
Digits	11 ^d	4'	30"	11 ^d	31'		—	26' 30"	11 ^d	0'	37"	+	3 53"
Sun's apparent Diameter	31	59		32	10		—	0 11	32	4.8		—	0 5.8
Moon's apparent Diameter	29	49½		29	32		+	0 17½	29	36		+	0 13½
Moon's horizontal Parallax	54	13		53	41		+	0 32	54	16		—	0 3

See Appendix to Palladium Supplement, 1764, for the rest. See also Eclipse Map and Pamphlet, sold by B. Cole, Fleet-street Price 2s. only, since the Races.

ECLIPSE-RACES.

A True REPRESENTATION of the *Moon's* MOTION through the *Earth's* Shadow, in the MOON'S ECLIPSE, on *Saturday*, March 17, 1764, at Night, *London*.



Strand.	Observed.				Computed fr. R. Ast. reduced to London. C.			Error.	See Appen- dix to <i>Palla- dium Supple- ment</i> , 1764, for the rest. Sold by B. Cole, Mathe- matical-In- strument.
	Apparent Time.								
	d	h	m	s	h	m	s	m	s
Beginning	17	10	39	5	10	39	12	-	7
Middle	18	0	2	26	12	2	38	-	12
End		1	26	30	1	26	4	+	26
Duration		2	47	30		2	46	+	38
Digits eclipsed		8	30'			8	37'	-	7

Maker, *Fleet-street*; and *J. Fuller*, Bookseller, *Newgate-street*, near *Cheapside*.
Given gratis with the *Palladium Supplement*, or Price 6d. separate.

SUN'S ECLIPSE, July 14, 1748, in the Forenoon, at *London*.

Observed.	Apparent Time.			Computed fr.	Error.			
	h	m	s	R. Ast.	h	m	s	m
Beginning	9	4	0	9	2	31	+	1 29
Middle	10	34	53	10	33	53	+	1 0
End P. M.	12	9	20	12	8	43	+	0 37
Duration	3	5	20	3	6	12	-	0 52
Error of Longitude							-	0 18
Duration of Annulus at Aberdeen	5	48		5	42		+	0 6

ECLIPSE of the SUN, Feb. 18, 1737, Forenoon, at *Edinburgh*.

	Observed.			Computed fr.			Error.	
	Apparent Time.			R. Ast.				
	h	m	s	h	m	s	m	s
Beginning	2	5	36	2	5	48	—	0 12
Middle	3	8	43	3	9	11	—	0 28
End	4	44	51	4	45	26	—	0 35
Duration	2	39	15	2	39	38	—	0 23
of the Annulus		5	48		6	56	—	1 8
Error of Longitude							+	0 11

Total ECLIPSE of the SUN, April, 10, Forenoon, 1715, at *London*.

Observed.	Apparent Time.			Computed fr. R. Ast.			Error.		
	h	m	s	h	m	s	m	s	
Beginning	8	6	0	8	7	46	—	1 46	
Middle	9	10	45	9	12	23	—	1 40	
End	10	20	0	10	12	5	—	2 5	
Duration	2	14	0	2	14	49	—	0 49	
total Darkness		3	23		3	35	—	0 12	
Error of Longitude							+	0 43	

Customs at GREENWICH Observatory,
Addressed to the WISE to judge of, and powerful
to redress.

THE Royal Observatory at Greenwich; (founded in the Reign of King Charles II.) was originally designed for making public the Observations there taken, to improve Astronomy. For which End the Royal Society not only

only promoted that well-designed *Institution*, and recommended the Establishment of an *Astronomer Royal*, with an Endowment of a suitable *Salary*, at *Greenwich*; but have largely contributed to the *noble Purpose* thereof, by curious and *accurate* Instruments put up there, at their own *private* Expence; expecting that the *Public* should reap the *Harvest* of their Endeavours. Instead of which End being answered, the ROYAL SOCIETY are, of late, not only refused the Observations there taken, which they *required* to publish *periodically*, in their *Philosophical Transactions*, for their own Use and Satisfaction; but the Public is denied the Benefit thereof; the *Mathematicians* and *Astronomers* of this Nation hindered from applying those Observations to the Uses and Improvements they were originally intended for. And this *Refusal* is made under the *Pretence*, that the Office of *Astronomer Royal* was a Gift to the *Observer*; and that all the Observations taken by him at *Greenwich*, (tho' paid for with the *Royal Bounty*, and *publick Money*, for the wise and public Uses intended,) are the *sole Property* of the *Royal Astronomer* for the *Time being*, in Consequence of the Office conferr'd on him.

Another Objection against delivering these Observations, periodically, for the Use of this Nation, is, that the *Foreigners* will reap the Advantage of them. But it might, with as much Reason, be objected, that we should publish no *useful Books of Science*; because *Foreigners* will receive Part of the Advantage; while we receive the same from their Publications, or that we should not make any Improvement and Advantage in our Trade and Manufacture, that *Foreigners* may not be Partakers. But these *Foreigners*, the FRENCH, *annually* import into this Kingdom, all Kinds of useful *Books in Astronomy*, and *Ephemerides*, relating to the *Places and Motions* of the heavenly Bodies for ten Years forward, at a considerable Expence, as well as a Reproach to us, and our *astronomical Professors*, for want of the same Kinds of *Improvements* being encouraged among ourselves. Which may deserve the *Consideration and Redress* of the *Wise and Powerful*.

REMARK. We are informed that the celebrated MATHEMATICIAN and ASTRONOMER, Dr. HALLEY, being actuated with different PRINCIPLES from the OBSERVERS before and since his Time, not only *periodically and freely* communicated his *astronomical* Observations to the ROYAL SOCIETY, whereof he was a *worthy Member*; but as freely communicated every Science, or Improvement he was Master of, for the Satisfaction, Use, and Honour of this Nation.—What Difference, between a *Mathematical ASTRONOMER*, or second NEWTON, and a *mere Observer*!

QUERE I. by ASTRONOMICUS. As there is free Liberty at Greenwich Observatory for all Persons to see the Instruments and Apartments where they are put up, at the public Expence, for *astronomical Uses*, (no Harm being supposed by the Public, or Donors, to be done to their Instruments, by such an Inspection, Curiosity, and Amusement, permitted.) Whether the Public and the ROYAL SOCIETY, (of which his MAJESTY is Patron,) have not as great a Right, or Demand, to be obliged in Return, with an Inspection of the Observations there taken; without asking a Favour of the Astronomer-Royal, as formerly of Flamsteed, to deliver what is their Right.

ANSWER.

ANSWER by PUBLICUS. The only *Difficulty* in the *Solution* of this *Problem*, is, that, if the *Principal* and *Subordinate* Observers are *negligent* in making their *Series* of *Observations*, they may find *Cause* of *Objection* to the delivering them, as call'd for, by the *Royal Society*; if *mentbly* the better. But if they are *double diligent*, they will do themselves and the Nation an *Honour* to make them public, the *oftner* the better.

Sir *Isaac Newton* paid his *Courtship* to Mr. *Flamsteed* (we have been told) as a *Lover* might to his *Mistress*, to obtain what he wanted for his *Purpose* and the Nation's *Honour*; but could not prevail with a *Wretch* to do his *Duty*; of whom the *justest Things* have been said, for the *INJUSTICE* and *DISHONOUR* he did to his *Country*, all under *Pretence* of his *Unwillingness* to part with his private *Property*. But in *Reality* his private *Envy*, to the *Fame* of Sir ISAAC NEWTON; terminating in a public *Injury*, and *Loss* of a perfect *Lunar Theory* to this Nation, in which the foreign *Astronomers* and *Mathematicians* are now endeavouring, by their *double Diligence*, to rival us.

QUERE by HOROLOGIOUS. Whether there should not be a *Clock* always regulated to *solar Time* in *Observatories*, when public *Observations* of *Eclipses*, or other *Phænomena* are made? That the *Time* of the *Observation* may be immediately ascertained to the *Spectators*, and compared with the *Time* of the *Calculation* of that *Phænomenon*, or *Appearance*, to prove the *Truth* or *Defect* of *Astronomical TABLES*; without taking *Observations* by a *Clock* going according to *sydereal Time*, or *Time* by some one of the *fixed Stars*, to puzzle the *Spectators*, and retard giving the *solar Time* of those *Observations*, from a pretended *Difficulty* of reducing the *sydereal* to the *solar Time*, by strange *Allowances* to be made, including a certain *Gaining* or *Losing* of the *sydereal Clock*, for a certain *Number* of *Days* and *Parts*.—Whereas the *Difference* between the *Degrees* of right *Ascension* of the *Star*, to which the *sydereal Clock* was set, and the *Degrees* of right *Ascension* of the *Sun*, at the *Time* of *Observation*, being turned into *Time*, (See p. 29. *Royal Astronomer*) and the *Difference* taken from the *sydereal Time*, will give the *solar Time* directly, or at once. As for which *End* that ready *Table* might be kept at *Hand* for *Use*.

ANSWER by PUBLICUS. The greatest *Ingenuity* in the *Solution* of this *Problem*, is to have as many *Allowances* to be made as possible; some *faster* and some *slower* *Motions* of the *sydereal Clock*; with a *Difference* set from the *Star's Time*, (which none but the *Horologist*, can look into,) because, by this *Means* the *Observer*, (like an *Aider* of *Harrison's Watch*,) has an *Opportunity* to hide the *Mistakes* in his *Observation*, if any should happen to be made; by *cooking* the *sydereal Time*, so as nearly to agree with the *solar Time* by different *Observers*.

But these *Observers* of *solar Time* have all got a *Custom* of comparing their *Observations* together, before they publish them, or let any but themselves know what they are, to prevent making large *Mistakes* in their *Observations*,
and

and *Reflections* on *one another's* Eyes and Glasses, in which it is customary for an *Observer* of *inferior Rank* or *Authority*, to bring the *Defect* of his Eyes, and the different *Power* of his magnifying Glass, to correspond, nearly, with the Observation of the *Glass* and *Eyes* of his SUPERIOR.

But to be serious—'Tis *amazing* to find *so near an Agreement in Time*, among the OBSERVERS of an ECLIPSE; who, at most, do not differ more than a few Seconds.

To the AUTHOR of the ECLIPSE-RACES.

MODERN CUSTOMS in MATHEMATICAL SCHOOLS.

By BRITANICUS.

THE first Institution of these *Schools* by those who endowed them, with *Salaries*, intended that Masters, the best qualified should *preside* in them, as Teachers: But by private and *oblique Interest*, it is found that a strict Adherence to that *public Principle* is not always attended to; on which Account it is found, that in some of our public *Mathematical Schools*, there are *Masters* presiding, who have little other Pretensions than knowing the Rules of common *Arithmetic*, (and those not perfectly,) to be there. And, it has been observed that Mr. *Muller* and Mr. *Simpson* of *Woolwich Academy*, (the latter deceased,) were *exemplary Instances* of real Abilities and Merit being properly rewarded, and of the originally intended Use made of that *Noble Institution*. The same has been likewise observed of the *celebrated Mathematician*, Mr. *Ditton*, capable *Mathematical-Master* of *Christ-Church-Hospital*; and some *Instances* at *Portsmouth Royal Academy* are produced of *designed Institution*, *Abilities*, and the *Reward of Merit* going Hand in Hand. —*Hull-Mathematical-School*, we find another *Instance*, where *Merit* is rewarded; and how many more *Instances* there may be in this Kingdom of the same due Regard being had to *Merit* and *Abilities*, we are not able to say. —But it is evident, that we have some Men, who are *Emerson's*, or *Ditton's*, and *Johnsons's*, in their *mathematical* Abilities, that are rejected being made *Masters* in some of our public *Mathematical Schools*, and *Academies*, and Men who are *much their Inferiors*, preferred to those Establishments.—Some of whom we find are not able to write a Book of *Science*, to prove their *Abilities* to the Public, except with *Errors* and *false Rules*, (as some have DONE,) and whose only Pretensions to their public Employ, are their Interest, awkward Pride, and Assurance.

E

Ma-

And some Mathematical *Masters* of our Royal Institutions, I am sorry to hear (by the Complaint of the *young Gentlemen* put under them, design'd for the *Sea* or the *Army*,) have imposed Hardships upon their *Pupils*, in their *Allowance* of *fit Diet*, and *Provisions*; abridging them of *LIBERTY*, at the same Time, to keep them under, like *Slaves*, not treat them like *Gentlemen's Sons* of the first Rank as they are, and curb their *warlike Spirits*, for the future Defence of this Nation; modelling their sprightly *Geniusses* by the dull Pattern of their own—Who, if they dare to complain, openly, are in Danger of being *expelled*, for Faults they are not guilty of; or of being *deprived* of their *Rank*, going on, if they are designed for the *Sea*, or other Employments. *Which Abuses of public Institutions may deserve a due Inspection and Examination into the Truth thereof; and also may deserve a REDRESS, if one can be obtained.*

I have been assured by some of the *Young Gentlemen*, *PUPILS* in these *Mathematical Schools* on Royal Establishment, (and where it might be expected that the Expence should be reduced by the *Royal Bounty*, or Institution,) that the Expence to their *Parents* is not less than £60. a Year, for their *School-Education*, and the *Necessaries* of Life, while the *Masters* parade in their augmented *Salaries*, (at least double what is allowed,) thro' their *Pupil's Sufferings*, and *Hardships*, in being abridged of *common Necessaries* allowed by the Institution; as well as in their common *Liberty*: A Practice said to be used in order to keep them *servile and under*.

O Tempora, O Mores!

Again, Some *Gentlemen* living in a Town where a *Mathematical School* is endowed, are obliged to send their *Sons* at a *Distance*, to have them qualified for the *Sea* or *Army*, by a *Master* of proper *Abilities*.

To the AUTHOR of the ECLIPSE-RACES.

S I R,

OUR new *Syphon Philosophers*, (condemning Mr. EMERSON's *Mechanic Principles*, on *SYPHONS*,) undertook to make a *Syphon* of very large *Dimensions*, in *rectangular* Form, contrary to the established *Principles* of *Philosophy*, and after spending near *three Months*, and keeping the *poor* distressed Families in *Suspence*, overflowed with *Water*; who were obliged to quit their *Houses*, could not make their *new invented Syphon* perform at all.—These *WORTHIES* (of *Syphon-Memory*) proposed making a *SYPHON* of *Slit-Deal*, that should be *forty Feet wide*, and *six Feet deep*, (not thin *Ring-Pressure*,) to drain the *whole Kingdom* of *unnecessary Waters*, or the *German Ocean*, if there was *Occasion*. But the *Anti-Syphon* they made of *less Dimensions*, and which never performed at all, is now swimming about in the *River Hull*, without any *Owner*. If you will be pleased to insert the following *ADVICE* to these *Syphon Makers*, *Projectors*, and *Undertakers*, you will greatly promote the *Cause* of true *Science*, and oblige the *Inhabitants* of *Hull*, and neighbouring *Parts*.

I am, S I R,

Your most humble Servant,

HULL, April
16, 1764.

ANDREW FREEPORT.

To the YORKSHIRE SYPHON-MAKERS
and PHILOSOPHERS. A SATYR.

BEN haste, before it be too late,
Visit MINERVA's Temple Gate;
Tap, gently, with thy Gold Head Cane,
Until thou dost Admittance gain.
Humbly approach the inner Court,
Where all th'illustrious ARTS resort:
ARITHMETIC, TRIGONOMETRY,
ANALYTICS, and GEOMETRY;
MECHANICS, sage PHILOSOPHY,
FLUXIONS, and bright ASTRONOMY.
These on the GODDESS Right-hand plac'd,
(She with a CROWN of STARS is grac'd:)
Next on her Left, below her Seat,
The inferior Arts upon her wait.
Grammar, Rhet'ric, and Poetry,
Logic, Metaphysics, in their Degree.
Fame sits above the Goddess' Throne,
And sounds the Praise of EVERY ONE!
To these bow low, BEN, and ask Pardon,
For thyself, and thy Brother Ard—n.
Own you from Science-Path did stray,
And were bewildered all the way.
Confess you've NEWTON's Works decry'd,
Thro' nought but Ignorance and Pride;
Traducing TRUTH and EMERSON,
As Hedge-row and DANMON have DONE.
Tho' neither should be deem'd a Fool,
If borrow'd Parts be made a Rule;
Th' Accounts (a) of One—can't go alone,
T'other's lam'd Fluxions (b) not his own;
Not MAD, but Authors of Repute,
In what they know not, and dispute.—
A Higler ONE (c) of Cuts and Maps;
And BOTH (d) Retailers of Fool's Caps:
Distributers, in London Town,
Of Hand, and Quack-Bills up and down:
Pretenders puffed with Wind and Vapour,
But no Paraders upon Paper.
One on a Cherry Tree, would scare
The fearful Birds from coming near;

Put on a Pole, his Brother loving,
Wou'd serve to sweep a Baker's Oven.
These Truths well told before the Throne,
Will serve to hide some Faults your own.
And for your Syphon, and th'Expense,
Like Black-Fryer's-Builders make Pretence:
Syphons and Bridges—may deceive;
Agents and Clerks, and all—must live!
Or, 'twas a Syphon in your Brain,
(And not the Waters it could drain)
Induc'd you to so rash a Scheme,
Of Boys and Girls the constant Theme.
And that your boasted Demonstrations,
Were only empty Affirmations,
Us'd to amuse the gaping Crowd,
And get your Name cry'd up aloud!
Among Commissioners profound,
As ever dreamt of water'd Ground;
As e'er were big with Inundations,
Meteors portent, and Exhalations!
Or us'd hard Words in Mathematics,
Philosophy, and Hydrostaticks.
Who, when beside their DAMES in Bed,
Saw Water-Mills, and Cranes i'th'head;
And Syphons large—which put in Motion,
Would quickly drain the German Ocean;
Make Sailors trudge on Foot, or starve:
From Dolphin-Point, (e) as far as Narv'
To bring home Burthens on their Backs,
Fir, Timber, Hemp, Pitch, Tar and Flax.
Say—'twas a famous Eng—r,
That saw a Syph, at Bommeter; (f)
Which was of a prodigious SIZE,
(Proving the little Use of L—s)
Tho' yours was nothing but a Gin,
For Frogs to play at Bo-peep in.
And promise—at next Equinoxes,
To cut thine (g) into Sentry Boxes;
And have one plac'd at ev'ry Gate (h)
To shew the Produce of thy Pate;
And let them stand a Monument
Of Folly—and of Time mispent.
—Next seat thee on Repentance-stool, (i)
And then confess—Who is the Fool. (k)

Ask

[a] Borrow'd Arithmetic and Questions in second Coats, or rather the first Coats alter'd; and Hodge-Podge Book-keeping-Geometry, not going alone, being in Leading-Strings. (b) A reverend Author's 1st Edition, going without any Name in his Life Time, but since he died a 2d Edition Editor's Title Page, and Name added, not the Author's. Like Legerdemain Mathematics, Presto! These profound Labours of confederate Labourers, are not placed only on what are called their own Fool's Shelves; but on their Bookfeller's Shelves. (c) Itinerant, or Danmonian Pedagogue. (d) Invalids in Science. (e) A Point of Land near the Humber's Mouth. (f) A Place in Holland. (g) Referring to the Syphons that did not perform. (h) Hull Town. (i) Minerva's Stool, whereon repenting Sinners in Science do Penance before that Court. (k) This Syphon-Maker condemn'd Emerson's Principles of Philosophy as false, and the Author for a F——.

Ask humbly for MINERVA's Cap, [I]
 Compose thyself, and take a Nap;
 Who knows but SHE may deign to shed
Her kindly Influence o'er thy Head;
 And fill't with *Wisdom* up to the *Brim*,
 So as to leave no Room for *Whim*;
 Or in-bred Notions—starting forth—
 Producing *Bubbles, Air and Froth*:
 Which make thy Works a Subject fit
 For Sport of Boys, and *Rabble-Wit*.

—Exert thy *Skill*—if thou hast any—
 And be above a low *Catch Penny*; [m]
 Make *Emerson* thy *Standard Rule*,
 The *Foremost* in MINERVA's School.
 Thy Faults confess'd—and those for *Ard—n*,
 The gracious Goddess—both may pardon—
 Who being moved—one may believe,
 To *Jack* and *Ben* (n) will grant *Reprieve*—
 Provided they no more exhibit,
 And pray to be excus'd the *Gib—t*.

ANDREW FREEPORT.

+++ These Syphon-Makers and Projectors, have not only proved their Ignorance in the first Principles of Science, by pretending to perform impossibilities; but have thereby reduced many poor Families to Distress; by their Inability to perform what they undertook, that others could have easily performed to effect; viz, draining the Country about Hull Town of the inundated Waters.

REMARK. This Correspondent gives us an Account of a Court of Science, soon to be held on some other Delinquents.

Some, vainly, undertake to play the Fool,
 Who ne'er could wield the WEAPON RIDICULE!
 A WEAPON, when with JUSTICE keen'd, can awe,
 And make Men tremble,—like avenging LAW!

(l) A Cap with Bells, which the Goddess of Science permits those to wear, who make their proper Confession and Submission to the Court of Science, in full Assembly met. (m) Eclipse Map and Pamphlet be so denominated. (n) Hand Bill Authors (a confederate Shopman, and Higler in Science) against which Sort of Authors, there is no Defence,—Being like Incendiaries, Knights of the Post, or Stabbers in the Dark!

INVITATION to EPSOM-RACES. A SONG. By Philo-BUMPER.

I.
COME Nobles, and Heroes, and Bucks of the
Turf;
 Having had of the dull smoaky Town quite enough;
 Come mount the gay Steed, and to EPSOM repair,
 To see the fine Horses, and Ladies, so fair!

II.
 Come Statesmen so subtle, unbend for a while,
 And leave your deep Schemes, on our Races to smile,
 In your Coaches, so splendid, at Races preside,
 And learn of our Jockeys how People to guide.
And learn of our Jockeys, &c.

III.
 Come Merchants, and Bankers, and Poets, and
 Players,
 Leave your discounting Bills, and your anxious
 Affairs

Come mount the proud Steed, to the Races advance,
 To taste Health and Pleasure, not equall'd in
 France.

To taste Health and Pleasure, &c.

IV.
 Come Aldermen, Commoners,—all sober Cits,
 Who center your Happiness in your Tit Bits;
 Now the WINTER is fled, and fair FLORA is drest,
 We've Turtle and Poultry, and THINGS of the best.
We've Turtle and Poultry, &c.

V.
 Come Judges, and Council, Solicitors too,
 And Bishops, and Doctors, and Curates so flue;
 In Coach, or in Chaise, or on Horseback, draw
 near,
 We've Choice of fine Ladies—but nothing too
 dear.

We've Choice of fine Ladies, &c.

VI.
 Come Brewers, Distillers, of Gold the Essayers,
 Come Jonathan's Jobbers, in Bulls and in Bears;
 Come

Come mount the bold *Steed*, at our *Races* appear,
Leave your *Transfer* behind and forsake your
dull *Care*.

Leave your Transfer, &c.

VII.

Come *Mercers*, come *Drapers*, come *Turk* and
come *Jew*;

Come *Spital-Field-Weavers*, bring *Dolly* and
Sue;

Come mount all your *Horses*, and taste *Epsom*
Air,

You will find all you *Want*, if you will but come
here.

You will find all you want, &c.

VIII.

The *Names* of some *Heroes*, *O Muse*, let me tell ;
Tom Jackson, *Jo Marshall*, and famous *Tom Bell*;



There is *Larkins* and *Green*, *South*, *Johnson* and
Tate,
Homer's Heroes to them are grown quite out of
Date.

Homer's Heroes to them, &c.

IX.

The *Horses* now ready, those *Jockeys* appear,
And mark with what *Swiftness* they fly thro' the
Air,

Young *Childers*, young *Granby*, and famous
young *Leeds*,

Old *Homer's* mere *Reps*,—when compar'd with
these *Steeds* !

Old Homer's mere Reps, &c.

X.

Come all ye good *People*, the old and the young,
Away to fair *Epsom*, and see a mix'd *Throng* ;
The *Riders* are mounted, the *Course* now is clear ;
What Joys upon Earth can with Racing compare !
What Joys upon Earth, &c.

TIT-UP. A SONG. By *Philo-Phillis*,

A LOVER of the TURF.

I.

THE Man how filly,
To think he's able
To back a *Filly*,
When old and feeble,
Sighing, trying,
Striving, mounting,
Scarce, after all, to his *Saddle* can rise !
But, when upon her,
Head strong he's got,
Now for his *Honour*,
She very *hot* ;
Sudden she plunges,
Capers and longes,
Off he is flung, and away *Philly* flies !

II.

But let the clever
Jolly young *Rider*,
While you live ever,
Mount her, he'll guide her ;
Freaking, squeaking,
Neighing, playing,
Sweetly she'll move to his *Pleasure*
and *Ease* ;
Walk, Trot, and Gallop,
And quite in Hand,
Warm with her *Glee* up,
At your Command,
Freely she'll set up,
Tit-up, a Tit-up,
Tit-up, a Tit-up, as long as you please.

F

A PERPETUAL.

A PERPETUAL and USEFUL TABLE for finding, at Sight, the Week-Day, to any Month-Day, and the Contrary, for Ever; either according to OLD, or NEW-STYLE; when any Event happened, or will happen.

First, Find the SUNDAY-LETTER from below, either according to OLD, or NEW-STYLE.								
OLD-STYLE Remainders.	NEW-STYLE Remainders.	OLD-STYLE Remainders, of Hundreds divided by 7, for DATES since Christ.						
		5	0	2	4	6	1	3
		NEW-STYLE Remainders, of Hundreds divided by 4, for DATES since Christ.						
		0	1	2	3			
		New and Old-Style SUNDAY-LETTERS, for Hundreds and also for Leap-Years.						
B A C E G				New-Style Letters, for complete Hundreds.				
B A	D C	F E	A G	C B	E D	G F		
g f e	b a g	d c b	f e d	a g f	c b a	e d c		
5	0	0	4	8	12	16	20	24
		28	32	36	40	44	48	52
		56	60	64	68	72	76	80
		84	88	92	96			
0	1	24	28	32	36	40	44	48
		52	56	60	64	68	72	76
		80	84	88	92	96		
2	2	20	24	28	32	36	40	44
		48	52	56	60	64	68	72
		76	80	84	88	92	96	
4	3	16	20	24	28	32	36	40
		44	48	52	56	60	64	68
		72	76	80	84	88	92	96
6		12	16	20	24	28	32	36
		40	44	48	52	56	60	64
		68	72	76	80	84	88	92
		96						
1		8	12	16	20	24	28	32
		36	40	44	48	52	56	60
		64	68	72	76	80	84	88
		92	96					
3		4	8	12	16	20	24	28
		32	36	40	44	48	52	56
		60	64	68	72	76	80	84
		88	92	96				

Month-Days, and Week-Days.		Sunday Letters						
MONTHS		A	B	C	D	E	F	G
Jan. 31.		1	2	3	4	5	6	7
		8	9	10	11	12	13	14
		15	16	17	18	19	20	21
Oct. 31.		22	23	24	25	26	27	28
		29	30	31	1	2	3	4
Feb. 28.		5	6	7	8	9	10	11
Mar. 31.		12	13	14	15	16	17	18
Nov. 30.		19	20	21	22	23	24	25
		26	27	28	29	30	31	1
Apr. 30.		2	3	4	5	6	7	8
		9	10	11	12	13	14	15
		16	17	18	19	20	21	22
July 31.		23	24	25	26	27	28	29
		30	31	1	2	3	4	5
		6	7	8	9	10	11	12
Aug. 31.		13	14	15	16	17	18	19
		20	21	22	23	24	25	26
		27	28	29	30	31	1	2
Sep. 30.		3	4	5	6	7	8	9
		10	11	12	13	14	15	16
Dec. 30.		17	18	19	20	21	22	23
		24	25	26	27	28	29	30
		31	1	2	3	4	5	6
		7	8	9	10	11	12	13
May 31.		14	15	16	17	18	19	20
		21	22	23	24	25	26	27
		28	29	30	31	1	2	3
Jun. 30.		4	5	6	7	8	9	10
		11	12	13	14	15	16	17
		18	19	20	21	22	23	24
		25	26	27	28	29	30	

N. B. The above Tables will be of use, as long as the Sun and Moon endure, or Years, Months and Days, are in being.

USE

USE of the FIRST TABLE.

Divide the Hundreds of any Date by 7, for Old, and by 4, for N. Stile, and note the respective Remainders—Under which, on the Top of the Tables, stand the Sunday Letters for complete Hundred O. and N. Stile. And against those respective Remainders, on the Side of the Tables, find the Date of the last Leap-Year, above complete Hundreds; and in the same Column, upwards, stand the Sunday Letters for O. or N. Stile; and the 3 S. Letters for the 3 Years after that Leap Year.

EXAMPLE. I. To find the S. Letter for the Date 1715, since Chr. when a total Eclipse of the Sun happened.

Divide 17 Hundreds by 7 and 4, and 3 and 1, will be O. and N. Stile remainders respectively.

Against which, above 12, (for 1712) the last Leap Year, stand FE, and CB O. and N. Stile Sunday Letters respectively; and underneath those stand B and F, for the O. and N. Stile Letters for 1715; the third Year after 1712.

To find the Sunday Letter for O. and N. Stile for Dates before Christ.

RULE. Subtract the Date from 1, added to any Number of seven Hundred Years, for the Date correspondent since Christ Old Stile, or subtract the Date from 1, added to any Number of 4 Hundred Years, for the Date correspondent since Christ, N. Stile; which Dates have the same Sunday Letters as those before Christ, O. and N. Stile respectively. Then proceed as in Ex. I. above.

Ex. II. To find the S. Letter O. S. 364 before Christ.

1 added to 3 Times 7 Hundreds, equal to 2101
Subtract the given Date before Christ 364

Rem. the Date since Christ having same S. Letter O. S. 1737

Divide 17 Hundreds by 7, and 3 will be the O. S. Remainder, or divided by 4, then 1 will be the N. S. Remainder. Against which, on the Side, find 36, for 1736, the last Leap Year, and above which, in the Column against 3, stand DC, and in Column against 1, stand AG, O. and N. Stile S. Letters 1736. Under which, stand B and F, O. and N. Stile Letters for 1737 (1 Year after) required.

The same to be observed in other Cases.

If you subtract the Dates since Christ from 1 added to any Number of 7, or 4 Hundred Years, the Remainders will be the Dates before Christ, having the same O. and N. Stile Sunday Letters respectively.

Remark. To obviate critical Objections, our View in the Title of *Eclipse-Races*, and Manner of treating the Subject, was intended to set the Pretenders to astronomical Computation in a proper Light.—Some who know not what they are about themselves, borrow from others.—*The Blind leading the Blind!*

This Species of Computers neither know which are the best astronomical Tables, constructed from accurate Observations, how they are constructed, with their proper Equations; nor will they be instructed therein by Judges and Witnesses of the Truth. Who shew their Judgment of Calculation, in being afraid to mention the Tables they compute by, and betray their Mistrust of their own Judgment, and of the Authority of the Tables they use, together. Who would have their Calculations pass on their Word; though NEWTON'S Word would not go without a Demonstration, to warrant its Authority; and though one of the GREATEST astronomical COMPUTERS of this Kingdom, (to whom we have the Honour to be known) candidly submits all his Calculations to a public Trial and Judgment. Therefore CALCULATIONS published without mention made, by the Computer, of the Tables he used, can be of no Authority. As the Name of Tables, when mentioned, will always shew how much they, and the Computer's Abilities, are to be depended on, in Consequence of an Observation, compared with the Calculation. And if the Computer misapplies useful Tables, the Consequence will shew it.

There are some astronomical Tables (like Quack Medicines) passing for rare Secrets; if whose Compositions were duly examined and made known, by sufficient Trials or Operations, the Reputation of the astronomical Author would soon appear.

In Answer to the personal Reflections on Mr. B—ts and H— p. 187, *Owen's Magazine*—In the same Magazine, for April, 1764, at p. 191, the astronomical Conductor has deducted 9^m. 17^s. from *De la Lande's Satel. Eclipses of Jupiter at Paris* (See *Connoissance des Mouvemens célestes 1764*) for those at Greenwich, in May, and given these Errors, besides others, and mutilating that Astronomer's Observations for the Month.

1 Sat. Jup. eclipsed May 3^d. 12^h. 29^m. for 13^h. Ec. 23 0 45 23 for 46, Ec. 2 Sat. 9 10 51 40 for 52^m. Ec. 4 Sat. 12 6 23 25 for 12 6 34 25 E.—the candid Review.

Trust not your self; but your Defects to know.

Make use of ev'ry Friend and ev'ry Foe.

POPE.

USE of the SECOND TABLE.

In the Columns under the Sunday Letter for the given Year, and against the Month, stand the Sundays in that Month; and the Week-Days follow to the Right and then Left in Succession.

EXAMPLE I. To find the Week-Day to April 22, 1715, since Christ, O. Stile, or May 3, N. S. when a total Eclipse of the Sun happened, in the Forenoon.

Under B, the Sunday Letter for O. Stile, against April stand 3, 10, 17, and 24, all the Sundays in that Month, consequently the 22d. Day of April O. S. was on a Friday.

Again, under E, the Sunday Letter for N. S. against May, stand 5, 12, 19, 26, all the Sundays in that Month, consequently May 3, N. S. was on a Friday as before.

EXAMPLE II. To find the Week-Day to Feb. 18, 364 before Christ, having the same Sunday Letter as Feb. 18, 1737, since Christ, O. S. when an Eclipse of the Sun happened, or March 3, N. S.

Under B, against February stand 6, 13, 20, and 27, all the Sundays in that Month, O. S. therefore, the 18th Day was on a Friday, required.

Again under F against March, stand 3, 10, 17, 24, and 31, all the Sundays in that Month, N. Stile; therefore March 3 is on a Friday as before.

The day of the Month may be determined from 1st. 2d. 3d. or 4th. Week-Day in any Month, counting from the Sunday correspondent and its Month Day to the Month Day, required, answering to the Week-Day given.

A NEW

*A NEW City and Country GUIDE. For the YEARS 1764, and 1765,
NEW-STYLE.*

1764.		WEEK - DAYS							Add Days to the Mth-Day for the Moon's Age.		New Full Moon	SUN RISES			
									Moon	Moon		1st	11th	21st	
												8 ^h 5 ^m	7 ^h 55 ^m	7 ^h 45 ^m	
Janu ry April July	S	m	tu	w	th	fr.	sa		Januar	2 ^d	3 ^d	18 ^d			
Febru ry August	w	th	fr	sa	S	m	tu	w	Febru.	23	2	17	7 27	7 6	6 50
March November	th	fr	sa	S	m	tu	w		March	27	2	17	6 32	6 12	5 52
May	tu	w	th	fr	sa	S	m		April	29	30	16	5 31	5 11	4 53
June	f	sa	S	m	tu	w	th		May	0	30	15	4 35	4 20	4 4
Septemb. Decemo	sa	S	m	tu	w	th	fr		June	1	29	13	3 51	3 45	3 43
October.	m	tu	w	th	fr	sa	S		July	1	28	13	3 4	3 54	4 4
Agg. the Mth under the Wk-day stand all the Mth-days for 1764.	1	2	3	4	5	6	7		August	3	2	11	4 20	4 30	4 54
As above the Mth-day aga, the Mth stand the Days correspondent.	8	9	10	11	12	13	14		Septe.	4	25	10	5 15	5 32	5 54
	15	16	17	18	19	20	21		Octob.	5	25	9	6 13	6 33	6 53
	22	23	24	25	26	27	28		Nov.	6	23	8	7 12	7 30	7 45
	29	30	31	WEEK-DAYS					Dece.	7	22	8	7 58	8 6	8 8
1-65.	29	30	31	WEEK-DAYS					Januar.	9	21	7	Against May 1764,		
January October	tu	w	th	fr	sa	S	m		Febru.	10	19	5	1765, or any Year,		
Feb. March Nov.	fr	sa	S	m	tu	w	th		March	9	21	7	Sun nearly rises as under.		
April July	m	tu	w	th	fr	sa	S		April	10	20	6	h m		
May	w	th	fr	sa	S	m	tu		May	10	19	5	1st 4 35		
June	sa	S	m	tu	w	th	fr		June	12	18	3	11th 4 20		
August	th	fr	sa	S	m	tu	w		July	12	18	3	21st 4 4		
Septemb. Decemb	S	m	tu	w	th	fr	sa		August	13	16	1 30	whence the Rising and		
Against the Month	Ex. I. To find the Day of the Month to the 3d Monday in May, 1764. Against May, and under Monday stands 7, 14, 21, 28, all the Mondays in that Month, therefore the 3d Monday is May 21, required.								Septe.	15	15	29	Setting for intermediate Days are known.		
Above the Week-Days stand all the Month Days for 1765. As under the Month-day against the Month, stands the Week-day correspondent.									Octob	15	14	28	VI. ECLIPSES, 1765.		
									Nov.	17	13	27	4 partial of the Sun.		
									Dece.	17	12	27	2 Total of the Moon.		
EXAMPLES.											Sun d h m				
June 24 1764 1764.											1. Feb. 19. 11 3 Inv.				
Add 1 N.M. F.M.											2. Mar 21. 1 12 Inv.				
M. Age 25 May July											3. Aug. 16. 3 35 Eur.				
Days 30. 15.											4. Sep. 15. 4 51 Inv.				
RULE and EXAMPLE.											MOON. h m				
Sub. 30 or 29 1765											1. Mar. 7. 1 18 Tot.				
as 1st and 2d June 24											2. Aug. 30. 3 57 Tot.				
Col's make add 12											1765				
30 or 29 & 36											May 5				
Moon's Age 30											add 10				
remains. M. Age 6											Moon's Age 15 Days.				

*Short liv'd Amusements vanish, soon are past,
But useful Science will for Agè's last.*

F I N I S.

(Entered at the Hall.)